

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDFO4LEDXT-20LXXKWDE1-RD4FMWSO-FACY2.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

 [TESTLAB] Photopia 2015.1.1 see: www.ltioptics.com/ies

[ISSUEDATE]

[TESTDATE] Fri Jun 10 2016

[UPDATE] Wed Aug 31 2016

[TEST] SP-00480_17_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-20L-xxK-WD-E1-RD4F-MW-SO-FACY2

[LUMINAIRE] 4" aperture recessed LED downlight w/ 2"H Frosted Clear Acrylic Cylinder Element

[OTHER] Wide Beam upper reflector, regressed Solite lens, Matte White lower cone

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available color temperatures

[OTHER] This report prepared by Spectrum Lighting, scaled from 40L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1221
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.62
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14210	14384	14226
55	10889	10928	11072
65	8412	8595	8486
75	6851	6832	6832
85	5268	5454	5309

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO4LEDXT-20LXXKWDE1-RD4FMWSO-FACY2.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1754.279	1754.279	1754.279	1754.279	1754.279
5	1695.955	1693.206	1689.450	1680.484	1697.305
10	1665.408	1651.548	1648.696	1654.379	1641.901
15	1348.482	1336.175	1330.351	1338.144	1338.336
20	836.587	838.577	836.005	838.494	834.577
25	454.713	458.194	461.191	456.256	458.672
30	285.834	283.979	285.060	282.639	278.862
35	184.745	187.825	185.072	187.207	188.116
40	156.214	157.725	158.733	156.193	158.463
45	133.449	133.652	135.080	134.187	133.600
50	115.895	116.264	114.633	115.833	114.794
55	96.762	97.245	97.110	97.682	98.388
60	79.930	82.273	80.897	80.600	79.832
65	68.236	68.642	69.722	69.358	68.834
70	57.374	58.662	59.026	57.888	58.298
75	48.573	48.314	48.443	48.630	48.443
80	39.653	40.059	39.685	39.856	39.607
85	30.838	31.669	31.928	31.570	31.076
90	28.339	27.580	26.713	27.357	27.393

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Zone	Lumens	%Lamp	%Fixt
0-20	517.22	N.A.	42.40
0-30	746.92	N.A.	61.20
0-40	873.57	N.A.	71.50
0-60	1065.51	N.A.	87.20
0-80	1185.78	N.A.	97.10
0-90	1221.3	N.A.	100.00
10-90	1060.57	N.A.	86.80
20-40	356.34	N.A.	29.20
20-50	460.78	N.A.	37.70
40-70	260.67	N.A.	21.30
60-80	120.27	N.A.	9.80
70-80	51.54	N.A.	4.20
80-90	35.51	N.A.	2.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1221.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	160.73
10-20	356.49
20-30	229.70
30-40	126.65
40-50	104.43
50-60	87.51
60-70	68.72
70-80	51.54
80-90	35.51
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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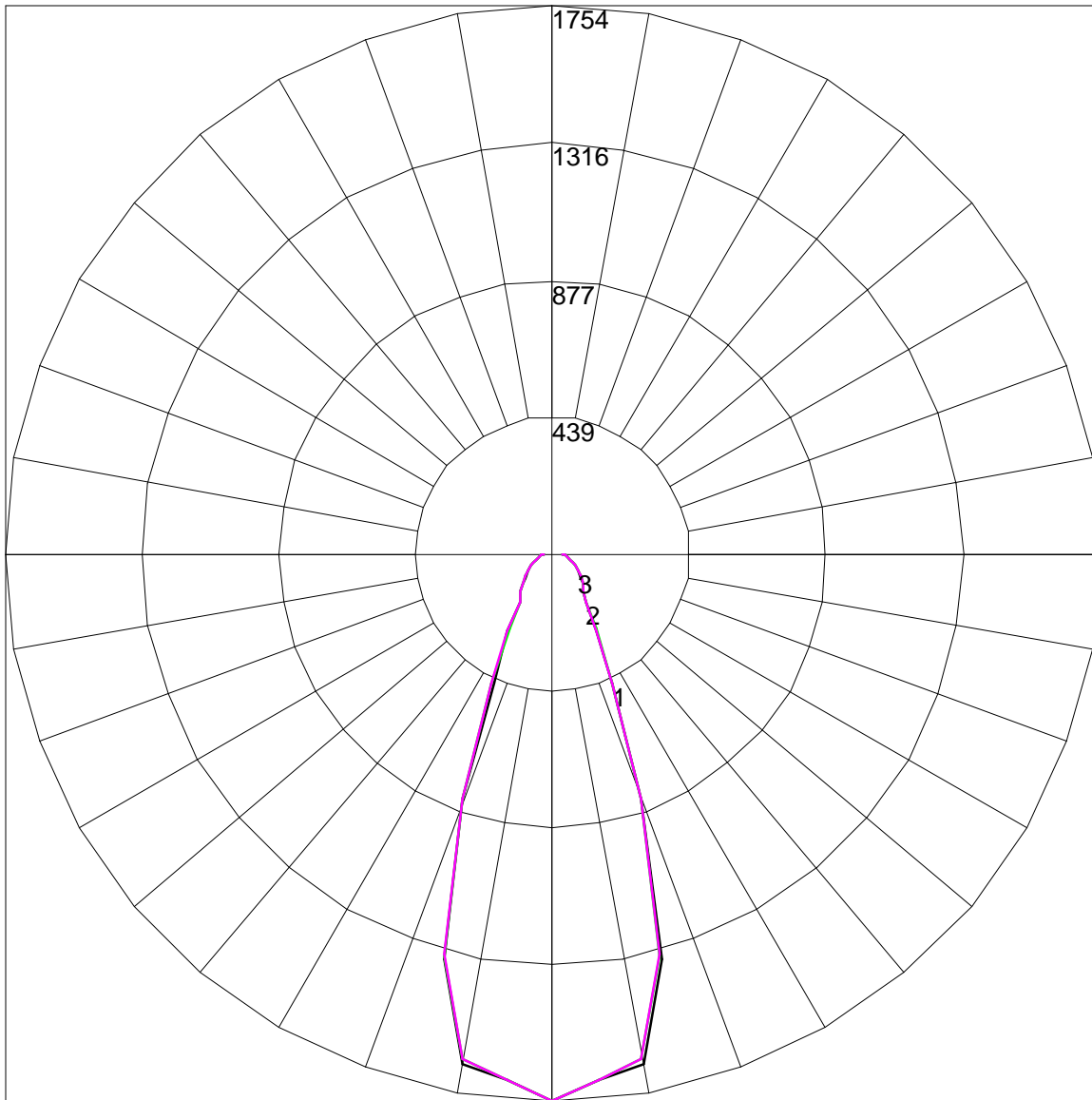
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	61
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48
10	68	58	52	48	67	57	52	48	57	51	47	56	51	47	55	50	47	46

POLAR GRAPH



Maximum Candela = 1754.279 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Vertical Plane Through Horizontal Angles (45 - 225)